







Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summary	10/007,839	HOUSTON ET AL.
	Examiner	Art Unit
	Laura M Schillinger	2813
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wit	h the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a re y within the statutory minimum of thirty vill apply and will expire SIX (6) MONT , cause the application to become AB.	eply be timely filed r (30) days will be considered timely. IHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed on <u>08 f</u>	November 2001 .	
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.	•
3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims		
4) Claim(s) 1-11 is/are pending in the application	1.	
4a) Of the above claim(s) is/are withdraw	wn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-11</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9) The specification is objected to by the Examine		
10) ☐ The drawing(s) filed on is/are: a) ☐ accept		
Applicant may not request that any objection to the		
11) The proposed drawing correction filed on		isapproved by the Examiner.
If approved, corrected drawings are required in re	•	
12) The oath or declaration is objected to by the Ex	ammer.	
Priority under 35 U.S.C. §§ 119 and 120	n priority under 25 U.S.C. 8	\$ 110(a) (d) or (f)
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	ir priority under 33 0.3.0.	3 119(a)-(u) 01 (t).
· —	n have been received	
1. Certified copies of the priority document		polication No.
2. Certified copies of the priority document		
3. Copies of the certified copies of the prio application from the International Bu* See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
 a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domest 		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _

6) Other:



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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Blewer et al ('200).

In reference to claim 1, Blewer teaches a method comprising:

- . a) forming a structure (Fig.4 (5)) having porous semiconductor material at a first surface thereof (Fig.4 (4));
- b) introducing an oxidizing species into the porous semiconductor material; and either before or after step b).
- c) forming an epitaxial semiconductor layer on the porous material (Col.2, lines: 5-10), and reacting the oxidizing species with the porous semiconductor material to form a buried dielectric layer beneath the epitaxial layer (Col.2, lines: 10-20).

In reference to claim 2, Blewer teaches wherein the oxidizing species consists of O (col.2, lines: 10-20).



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In reference to claim 3, Blewer teaches wherein the semiconductor layer consists of Si (Col.2, lines: 10-15).

In reference to claim 4, Blewer teaches a method comprising:

- a) anodizing a Si wafer to form porous Si (Col.3, lines: 50-55 and Col.2, lines: 30-45);
- b) introducing O into the porous Si and either before or after step b) (Col.2, lines: 10-20);
- c) forming a semiconductor layer on the porous Si and reacting the O with the porous semiconductor material to form a BOX (Col.2, lines: 1-20).

In reference to claim 5, Blewer teaches wherein the semiconductor layer consists of Si (Col.2, lines: 10-15).

In reference to claim 6, Blewer teaches a method comprising:

- a) partially anodizing a Si wafer to form porous Si (Col.3, lines: 30-40);
- , b) forming an epi layer on the porous Si (Col.2, lines: 5-20)
- b) introducing O into the porous Si reacting the O with the porous semiconductor material to form a BOX (Col.2, lines: 5-20).

In reference to claim 7, Blewer teaches wherein the oxidizing species consists of O (Col.2, lines: 10-20).



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In reference to claim 8, Blewer teaches wherein the semiconductor layer consists of Si(Col.2,

lines: 10-15).

In reference to claim 9, Blewer teaches the device as a result of claim 1 (linking claimautomatically rejected with claim 1).

In reference to claim 10, Blewer teaches the device as a result of claim 4 (linking claim-automatically rejected with claim 4).

In reference to claim 11, Blewer teaches the device as a result of claim 6 (linking claimautomatically rejected with claim 6).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M Schillinger whose telephone number is (703) 308-6425. The examiner can normally be reached on M-F 7:00 -4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (703) 306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1500.



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LMS May 13, 2002

> OLIK CHAUDHURI SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800